

## Terms of References for Digitalization of Autism Screening and Assessments

### Tools:




#### **Contract Package no.SF-9**

#### **Background:**

The number of people suffering from Autism Spectrum Disorder has increased that demands prompt and holistic initiatives for early diagnosis and interventions. According to section 17 (A) of Neuro-Developmental Protection Trust Act 2013 identification and assessment of severity of PwNDDs is one of the prime task of the Trust. In our National Strategic Plan for Autism and Neuro-Developmental Disorders 2016-2021, the need for early identification and appropriate diagnosis has been emphasized. The government of Bangladesh has empowered the Neuro-Developmental Disability Protection Trust to take necessary initiatives to identify the person with Neuro-developmental Disorders and keep their records to ensure their lifelong care. Autism Spectrum Disorder-one of the major Neuro-Developmental Disorder that needs appropriate facilities and easily available tools for screening and diagnosis. However, the scarcity of culturally adapted and validated cost-effective Bangla tools for diagnosis and severity assessment deprived thousands of children with autism from receiving the treatment in their early childhood. To overcome this problem, the Neuro-Developmental Disability Protection Trust has developed a Bangla Autism Assessment Tool for professionals and also translated the Red Flag Signs for Autism in Bangla for everyone to screen their children. At this stage, the Trust is interested to develop a fully digitalized system for Screening, Diagnosis, severity assessment of Autism and develop a referral system for them that will also provide a real-time database.

#### **Objectives:**

1. To develop a user friendly, reliable digital Autism screening and assessment system for mobile and web version based on the tools already developed by the Neuro-Developmental Disability Protection Trust.
2. To develop a reliable and real-time Autism Database that can be used for multiple purposes.



3. For this purpose, the consulting firm will develop a data center. The firm will maintain the center and take the necessary steps to run the system effectively and efficiently by solving any day to day problems.
4. The firm will develop a multilayer referral system: screening to confirm diagnosis, and diagnosis to nearest service centers.

## SCOPE OF WORK

The assigned firm will do the following tasks-

1. Evaluate different government websites and databases in different government sectors.
2. Digitalize Autism screening and assessment tools for mobile and web version based on the mobile application tools already developed by the Neuro-Developmental Disability Protection Trust. The software/system should be user-friendly for both mobile and web version. In the mobile version there will be android and ios version.
3. Evaluate the usability and acceptability of the system.
4. Establish a data center for the data storage and data migration by installation of the server, domain and other necessary steps at the desired location by the Procurement Entity (PE).
5. Develop a multilayer referral system: screening to confirm diagnosis, and diagnosis to nearest service centers

## Requirements:

1. The firm must be legally registered by the appropriate authority.
2. Certificate of Incorporation, TIN Certificate, VAT registration, In case of Joint Venture-Joint venture agreement or Letter of Intent
3. Experience in relevant field.
4. Key Personals with appropriate and adequate experience

**Deliverables:**

1. Design and Develop a user-friendly Digital System for Autism Screening and Assessment.
2. Development of a real-time database for Autism
3. Maintain the database and system
4. Develop the Referral System

**Duration of the assignment:**

Phase I: Develop, Installation and functioning of the system and Data center: 4 months

Phase II: Maintaining the system yearly basis.

**Reporting Requirements and Time Schedule for deliverables:**

1. Inception report: within 7 days of the contract signing
2. Progress report: interim progress report within next two month
3. Final or completion report: within the 4 months of the contract.

